## Approved For Release 200403264 CIA-RDP78B05703A00<del>92</del>00030029-0

NPIC/TSG-023/70 2 0 JUL 1970

MEMORANDUM FOR: Director, National Photographic Interpretation Center

SUBJECT: Request for Approval of Personal Services

Contract for Consultation in Visual Perception with 25X1
25X1
from FY-1971 R&D Funds 25X1

- 1. This memorandum requests approval for the commitment of R&D funds for a contract. The specific request is stated in Paragraph 6.
- 2. The fields of visual perception, perceptual training, and physiological optics are becoming increasingly important to research on imagery interpretation. The definition and improvement of human performance in the Center exploitation process is becoming more and more critical as production requirements expand. This expansion of the demands made upon the photo interpreter promises to continue in the future. It requires that the interpreter's total interaction with the imagery he analyzes be thoroughly appraised. One of the key factors in this appraisal must be the workings of the human visual system in conjunction with the specific Center environment. Included in this environment are imagery characteristics, auxiliary optical instruments, and display and ambient lighting conditions. Dr.

  expertise in these and related visual research areas has been an invaluable adjunct in the past to Research & Engi-

has been an invaluable adjunct in the past to Research & Engineering Division's coordination of optical equipment development and human factors studies of PI vision. His continuing advisory services are deemed extremely desirable.

25X1

GROUP 1 Excluded from automatic

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Declass Review by NGA

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## Approved For Release 2004/03/26 : CIA-RDP78B05703A000200030029-0

SUBJECT: Request for Approval of Personal Services Contract for Consultation in Visual Per- ception with  from FY-1971 R&D Funds	25X1 25X1
a. Guidance to Advanced Technology Branch Human Factors Section personnel on the implementation of advance stereo acuity and color vision tests for Center interprete and photogrammetrists;	
b. Assistance to Engineering Support Division Test and Evaluation Branch personnel during their in-house assessments of newly delivered PI equipment where optical/ visual parameters influence acceptance decisions;	,
c. Participation with in the planning of an empirical study using the Wide Field High Power Stereo Viewer to determine the influence upon interpreter output of microscope field of view;	25X1 25X1 25X1
d. Direct assistance to the conducted Viewing Systems Study in which the specification of standardized optical system parameters must include consideration of the user's visual characteristics;	
e. Guidance to the Precise Mensuration Study where comparator design parameters such as magnification, illumination, and reticle configuration are functions of operator visual performance; and	25X1
f. Aid to the Color Training Program in which knowledge of the state-of-the-art of color vision and perceptual training will play a vital role.	25X1
4. Consultation efforts by in the past have proven extremely beneficial to the Center's R&D programs. In addition to his several areas of substantive expertise mentioned above, respected position within the academic community affords the Center indirect access to valuable resources otherwise unavailable to us. These additional resources include graduate students performing basic research in such relevant areas as visual accommodation and convergence in optical instruments, precise measurement of dynamic visual functions using the laser, and characteristics	25X1

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